

**REMARKS/ARGUMENTS**

Claims 1-4 and 6-8 are pending in this application. Favorable consideration is requested.

Claim 6 has been amended to place the claim in more conventional U.S. patent claim format and to further clarify the invention. Support for the amendments is found in the original claims and the specification, for example, paragraphs 7-16 and Figure 1. Claims 7 and 8 have been added to further cover the invention. Claims 7 and 8 are supported by the original claims and the specification, for example, Figure 1 and paragraphs 14-16. No new matter has been added by the amendments.

Claims 1-2 stand rejected under 35 U.S.C. 112, second paragraph, as allegedly being incomplete. Applicants respectfully traverse the rejection. Claims 1 and 2 contain all of the essential elements of the invention much like the claim to a chair would include a claim covering the elements of four legs, a seat, and a back. The patent statutes do not require the specific organization of the chair or the specific organization of the claimed invention as long as the claim sets forth the essential elements. Claims 1 and 2 set forth the essential elements of the invention. In this regard, and for explanation purposes in response to the Examiner's inquiries, the chemical layer can be located in a preliminary tube (see Figure 1) where a pyrolysis chemical reaction takes place. The pyrolysis product can be measured with a second tube for hydrogen fluoride. Applicant's essential elements of its invention are contained within claims 1 and 2. Thus, applicants submit that claims 1 and 2 comply with Section 112.

Claims 3-4 stand rejected under 35 U.S.C. 112, second paragraph, as allegedly being incomplete. Applicants respectfully traverse the rejection. Like above, applicants submit that claims 3 and 4 contain the essential elements of the invention. In response to the examiner's inquiry concerning how sulfuric acid is determined for determining the hydrogen fluoride

detected, and how the hydrogen fluoride pyrolysis product correlates to the amount of sulfuryl fluoride, the applicants state as follows. Turning to Figure 1 of the application, the second tube for the determination of hydrogen fluoride is calibrated individually. A predetermined volume of test gas with a known concentration of sulfuryl fluoride is pumped through the preliminary tube and then the second tube. The second tube contains an indicator layer with a scale. The length of color change correlates with the known concentration of sulfuryl fluoride. Claims 3 and 4 set forth the essential elements of the subject method for detecting sulfuryl fluoride. As stated in those claims, a gas specimen is subjected to pyrolysis with the ensuing detection of a pyrolysis product, the pyrolysis is performed with a chemical layer of pyrophoric iron above 400°C, and the hydrogen fluoride concentration of the pyrolysis product is detected, using a colorimetric test tube, in order to detect sulfuryl fluoride. Applicants submit that claims 3 and 4 contain the essential elements of the invention and, therefore, comply with section 112.

Claim 6 stands rejected under 35 U.S.C. 102(b) as allegedly being anticipated by Heckmann (U.S. Patent 5000920). In view of the foregoing amendments and remarks, applicants submit that the anticipatory rejection is now moot. As noted above, claim 6 has been amended to clearly differentiate the subject invention from Heckmann. Heckmann does not disclose a method of using a test tube for detecting hydrogen fluoride as a pyrolysis product and determining sulfuryl fluoride in a gas specimen by utilizing a test tube, passing the gas specimen through the test tube, detecting hydrogen fluoride as a pyrolysis product of the gas specimen in the test tube, and determining the proportion of sulfuryl fluoride in the gas specimen from the detected hydrogen fluoride. Fairly stated, the claimed method is not disclosed or even remotely suggested by Heckmann. As a result, applicants respectfully request the withdrawal of the rejection.

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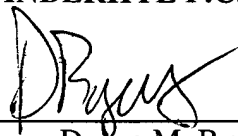
In view of the foregoing amendments and remarks, applicants submit that the application is in condition for allowance. A notice to that effect is earnestly solicited.

If the examiner has any questions concerning this case or would like to discuss it over the telephone, the undersigned would welcome a phone call at 703-816-4009.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

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